

RECEIVED

JAN 18 2002

#4

TECH CENTER 1600/2900

B  
OPIPE

1-22-02

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/944,944

DATE: 12/10/2001

TIME: 15:40:44

Input Set : N:\paola\09944944.txt

163)

Output Set: N:\CRF3\12102001\I944944.raw

3 <110> APPLICANT: Baker, Kevin  
 4 Botstein, David  
 5 Eaton, Dan  
 6 Ferrara, Napoleone  
 7 Filvaroff, Ellen  
 8 Gerritsen, Mary  
 9 Goddard, Audrey  
 10 Godowski, Paul  
 11 Grimaldi, Christopher  
 12 Gurney, Austin  
 13 Hillan, Kenneth  
 14 Kljavin, Ivar  
 15 Napier, Mary  
 16 Roy, Margaret  
 17 Tumas, Daniel  
 18 Wood, William

20 <120> TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
 21 ACIDS ENCODING THE SAME

23 <130> FILE REFERENCE: P2548P1C1

W--> 24 <140> CURRENT APPLICATION NUMBER: 09/944,944  
 25 <141> CURRENT FILING DATE: 2001-08-31  
 27 <150> PRIOR APPLICATION NUMBER: 09/866,028  
 28 <151> PRIOR FILING DATE: 2001-05-25  
 30 <150> PRIOR APPLICATION NUMBER: 60/069,334

W--> 31 <151> PRIOR FILING DATE: December 11, 1997  
 33 <150> PRIOR APPLICATION NUMBER: 60/069335

W--> 34 <151> PRIOR FILING DATE: December 11, 1997  
 36 <150> PRIOR APPLICATION NUMBER: 60/069,278

W--> 37 <151> PRIOR FILING DATE: December 11, 1997  
 39 <150> PRIOR APPLICATION NUMBER: 60/069,425

W--> 40 <151> PRIOR FILING DATE: December 12, 1997  
 42 <150> PRIOR APPLICATION NUMBER: 60/069,696

W--> 43 <151> PRIOR FILING DATE: December 16, 1997  
 45 <150> PRIOR APPLICATION NUMBER: 60/069,694

W--> 46 <151> PRIOR FILING DATE: December 16, 1997  
 48 <150> PRIOR APPLICATION NUMBER: 60/069,702

W--> 49 <151> PRIOR FILING DATE: December 16, 1997  
 51 <150> PRIOR APPLICATION NUMBER: 60/069,870

W--> 52 <151> PRIOR FILING DATE: December 17, 1997  
 54 <150> PRIOR APPLICATION NUMBER: 60/069,873

W--> 55 <151> PRIOR FILING DATE: December 17, 1997  
 57 <150> PRIOR APPLICATION NUMBER: 60/068,017

W--> 58 <151> PRIOR FILING DATE: December 18, 1997  
 60 <150> PRIOR APPLICATION NUMBER: 60/070,440

W--> 61 <151> PRIOR FILING DATE: January 5, 1998  
 63 <150> PRIOR APPLICATION NUMBER: 60/074,086

W--> 64 <151> PRIOR FILING DATE: February 9, 1998

ENTR'D

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/944,944

DATE: 12/10/2001  
TIME: 15:40:44

Input Set : N:\paola\09944944.txt  
Output Set: N:\CRF3\12102001\I944944.raw

66 <150> PRIOR APPLICATION NUMBER: 60/074,092  
W--> 67 <151> PRIOR FILING DATE: February 9, 1998  
69 <150> PRIOR APPLICATION NUMBER: 60/075,945  
W--> 70 <151> PRIOR FILING DATE: February 25, 1998  
72 <150> PRIOR APPLICATION NUMBER: 60/112,850  
W--> 73 <151> PRIOR FILING DATE: December 16, 1998  
75 <150> PRIOR APPLICATION NUMBER: 60/113,296  
W--> 76 <151> PRIOR FILING DATE: December 22, 1998  
78 <150> PRIOR APPLICATION NUMBER: 60/146,222  
W--> 79 <151> PRIOR FILING DATE: July 28, 1999  
81 <150> PRIOR APPLICATION NUMBER: PCT/US98/19330  
W--> 82 <151> PRIOR FILING DATE: September 16, 1998  
84 <150> PRIOR APPLICATION NUMBER: PCT/US98/25108  
W--> 85 <151> PRIOR FILING DATE: December 1, 1998  
87 <150> PRIOR APPLICATION NUMBER: 09/216,021  
W--> 88 <151> PRIOR FILING DATE: December 16, 1998  
90 <150> PRIOR APPLICATION NUMBER: 09/218,517  
W--> 91 <151> PRIOR FILING DATE: December 22, 1998  
93 <150> PRIOR APPLICATION NUMBER: 09/254,311  
W--> 94 <151> PRIOR FILING DATE: March 3, 1999  
96 <150> PRIOR APPLICATION NUMBER: PCT/US99/12252  
W--> 97 <151> PRIOR FILING DATE: June 22, 1999  
99 <150> PRIOR APPLICATION NUMBER: PCT/US99/21090  
W--> 100 <151> PRIOR FILING DATE: September 15, 1999  
102 <150> PRIOR APPLICATION NUMBER: PCT/US99/28409  
W--> 103 <151> PRIOR FILING DATE: November 30, 1999  
105 <150> PRIOR APPLICATION NUMBER: PCT/US99/28313  
W--> 106 <151> PRIOR FILING DATE: November 30, 1999  
108 <150> PRIOR APPLICATION NUMBER: PCT/US99/28301  
W--> 109 <151> PRIOR FILING DATE: December 1, 1999  
111 <150> PRIOR APPLICATION NUMBER: PCT/US99/30095  
W--> 112 <151> PRIOR FILING DATE: December 16, 1999  
114 <150> PRIOR APPLICATION NUMBER: PCT/US00/03565  
W--> 115 <151> PRIOR FILING DATE: February 11, 2000  
117 <150> PRIOR APPLICATION NUMBER: PCT/US00/04414  
W--> 118 <151> PRIOR FILING DATE: February 22, 2000  
120 <150> PRIOR APPLICATION NUMBER: PCT/US00/05841  
W--> 121 <151> PRIOR FILING DATE: March 2, 2000  
123 <150> PRIOR APPLICATION NUMBER: PCT/US00/08439  
W--> 124 <151> PRIOR FILING DATE: March 30, 2000  
126 <150> PRIOR APPLICATION NUMBER: PCT/US00/14042  
W--> 127 <151> PRIOR FILING DATE: May 22, 2000  
129 <150> PRIOR APPLICATION NUMBER: PCT/US00/20710  
W--> 130 <151> PRIOR FILING DATE: July 28, 2000  
132 <150> PRIOR APPLICATION NUMBER: PCT/US00/32678  
W--> 133 <151> PRIOR FILING DATE: December 1, 2000  
135 <150> PRIOR APPLICATION NUMBER: PCT/US01/06520  
W--> 136 <151> PRIOR FILING DATE: February 28, 2001  
138 <160> NUMBER OF SEQ ID NOS: 120

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/944,944

DATE: 12/10/2001  
TIME: 15:40:44

Input Set : N:\paola\09944944.txt  
Output Set: N:\CRF3\12102001\I944944.raw

140 <210> SEQ ID NO: 1  
141 <211> LENGTH: 2454  
142 <212> TYPE: DNA  
143 <213> ORGANISM: Homo Sapien  
145 <400> SEQUENCE: 1  
146 ggactaatct gtgggagcag tttattccag taticccag ggtgcagcca 50  
148 caccaggact gtgttgaagg gtgttttt tcttttaat gtaatacctc 100  
150 ctcatcttt cttcttacac agtgtcttag aacatttaca ttatagataa 150  
152 gtagtacatg gtggataact tctacttta ggaggactac tctcttctga 200  
154 cagtcctaga ctggcttct acactaagac accatgaagg agtatgtgct 250  
156 cctattattc ctggcttctg gctctgccaa acccttctt agcccttcac 300  
158 acatcgact gaagaatatg atgctgaagg atatggaaga cacagatgat 350  
160 gatgatgatg atgatgatga ttagtgcgtat gatgaggaca actctcttt 400  
162 tccaacaaga gagccaagaa gccattttt tccatttgat ctgtttccaa 450  
164 tgggtccatt tggatgtcgt tgcttattcac gagttgtaca ttgctcagat 500  
166 ttaggtttga cctcagtccc aaccaacatt ccatttgata ctcgaatgct 550  
168 tgatcttcaa aacaataaaa ttaaggaaat caaagaaaat gatttaaag 600  
170 gactcacttc actttatggt ctgatccctga acaacaacaa gctaacaag 650  
172 attcacccaa aagccttct aaccacaaag aagttgcgaa ggctgtatct 700  
174 gtcccacaat caactaagtg aaataccoact taatcttccc aaatcattag 750  
176 cagaactcag aattcatgaa aataaaggta agaaaataca aaaggacaca 800  
178 ttcaaggaa tgaatgcattt acacgtttt gaaatgagtg caaaccctct 850  
180 tgataataat gggatagagc caggggcatt tgaaggggtg acgggtttcc 900  
182 atatcagaat tgcagaagca aaactgaccc cagttccctaa aggcttacca 950  
184 ccaactttat tggagcttca cttagattat aataaaattt caacagtgg 1000  
186 acttgaggat tttaaacat acaaagaact acaaaggctg ggcctaggaa 1050  
188 acaacaaaat cacagatac gaaaaatgggaa gtcttgctaa cataccacgt 1100  
190 gtgagagaaa tacatggta aaacaataaa ctaaaaaaaaaa tcccttcagg 1150  
192 attaccagag ttgaaatacc tccagataat cttcccttcat tctaattcaa 1200  
194 ttgcaagagat gggagtaat gacttctgtc caacagtggc aaagatgaag 1250  
196 aaatctttat acagtcaat aagtttattc aacaacccgg tggaaatactg 1300  
198 gggaaatgcaa cctgcaacat ttcgttgggt tttgagcaga atgagtgttc 1350  
200 agcttgggaa ctggtaatg taataattag taattggtaa tgcattttta 1400  
202 atataagatt caaaaatccc tacatttggta atacttgaaat tctattaata 1450  
204 atggtagtat tatataataca agcaaaatatc tattctcaag tggtaagtcc 1500  
206 actgacttat tttatgacaa gaaatttcaa cggaaattttt ccaaactatt 1550  
208 gatacataag gggttgagag aaacaagcat ctattgcagt ttccttttg 1600  
210 cgtacaaatg atcttacata aatctcatgc ttgaccattc ctttcttcat 1650  
212 aaaaaaaaaaag taagatattc ggtatttaac actttgttat caagcacatt 1700  
214 tttaaaaagaa ctgtactgtt aatggatgc ttgacttagc aaaatttgg 1750  
216 ctcttcatt tgctgtttaga aaaacagaat taacaaagac agtaatgtga 1800  
218 agagtgcatt acactattct tattcttag taacttgggt agtactgtaa 1850  
220 tatttttaat catcttaaag tatgatttga tataatcttta ttgaaattac 1900  
222 ctatcatgt ctttagagccc gtctttatgt tttaaaactaa ttctttaaaa 1950  
224 taaaggccttc agtaaatgtt cattaccaac ttgataaaatg ctactcataa 2000  
226 gagctgggtt ggggctatag catatgcattt tttttttta attattacct 2050  
228 gatttaaaaaa tctctgtaaa aacgtgttagt gtttcataaaa atctgttaact 2100  
230 cgcattttaa tgatccgcta ttataagctt ttaatagcat gaaaattgtt 2150  
232 aggctatata acattgccac ttcaactcta aggaatattt ttgagatatac 2200

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/944,944

DATE: 12/10/2001  
TIME: 15:40:44

Input Set : N:\paola\09944944.txt  
Output Set: N:\CRF3\12102001\I944944.raw

234 cctttggaaag accttgcttg gaagagcctg gacactaaca attctacacc 2250  
236 aaattgtctc ttcaaatacg tatggactgg ataactctga gaaacacatc 2300  
238 tagtataact gaataagcag agcatcaaataa taaacagaca gaaaccgaaa 2350  
240 gctctatata aatgtcaga gttctttatg tatttcttat tggcatcaa 2400  
242 catatgtaaa atcagaaaaac agggaaaattt tcattaaaaa tattggtttg 2450  
244 aaat 2454  
246 <210> SEQ ID NO: 2  
247 <211> LENGTH: 379  
248 <212> TYPE: PRT  
249 <213> ORGANISM: Homo Sapien  
251 <400> SEQUENCE: 2  
252 Met Lys Glu Tyr Val Leu Leu Leu Phe Leu Ala Leu Cys Ser Ala  
253 1 5 10 15  
255 Lys Pro Phe Phe Ser Pro Ser His Ile Ala Leu Lys Asn Met Met  
256 20 25 30  
258 Leu Lys Asp Met Glu Asp Thr Asp Asp Asp Asp Asp Asp Asp  
259 35 40 45  
261 Asp Asp Asp Asp Glu Asp Asn Ser Leu Phe Pro Thr Arg Glu  
262 50 55 60  
264 Pro Arg Ser His Phe Phe Pro Phe Asp Leu Phe Pro Met Cys Pro  
265 65 70 75  
267 Phe Gly Cys Gln Cys Tyr Ser Arg Val Val His Cys Ser Asp Leu  
268 80 85 90  
270 Gly Leu Thr Ser Val Pro Thr Asn Ile Pro Phe Asp Thr Arg Met  
271 95 100 105  
273 Leu Asp Leu Gln Asn Asn Lys Ile Lys Glu Ile Lys Glu Asn Asp  
274 110 115 120  
276 Phe Lys Gly Leu Thr Ser Leu Tyr Gly Leu Ile Leu Asn Asn Asn  
277 125 130 135  
279 Lys Leu Thr Lys Ile His Pro Lys Ala Phe Leu Thr Thr Lys Lys  
280 140 145 150  
282 Leu Arg Arg Leu Tyr Leu Ser His Asn Gln Leu Ser Glu Ile Pro  
283 155 160 165  
285 Leu Asn Leu Pro Lys Ser Leu Ala Glu Leu Arg Ile His Glu Asn  
286 170 175 180  
288 Lys Val Lys Lys Ile Gln Lys Asp Thr Phe Lys Gly Met Asn Ala  
289 185 190 195  
291 Leu His Val Leu Glu Met Ser Ala Asn Pro Leu Asp Asn Asn Gly  
292 200 205 210  
294 Ile Glu Pro Gly Ala Phe Glu Gly Val Thr Val Phe His Ile Arg  
295 215 220 225  
297 Ile Ala Glu Ala Lys Leu Thr Ser Val Pro Lys Gly Leu Pro Pro  
298 230 235 240  
300 Thr Leu Leu Glu Leu His Leu Asp Tyr Asn Lys Ile Ser Thr Val  
301 245 250 255  
303 Glu Leu Glu Asp Phe Lys Arg Tyr Lys Glu Leu Gln Arg Leu Gly  
304 260 265 270  
306 Leu Gly Asn Asn Lys Ile Thr Asp Ile Glu Asn Gly Ser Leu Ala  
307 275 280 285

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/944,944

DATE: 12/10/2001  
TIME: 15:40:44

Input Set : N:\paola\09944944.txt  
Output Set: N:\CRF3\12102001\I944944.raw

309 Asn Ile Pro Arg Val Arg Glu Ile His Leu Glu Asn Asn Lys Leu  
310 290 295 300  
312 Lys Lys Ile Pro Ser Gly Leu Pro Glu Leu Lys Tyr Leu Gln Ile  
313 305 310 315  
315 Ile Phe Leu His Ser Asn Ser Ile Ala Arg Val Gly Val Asn Asp  
316 320 325 330  
318 Phe Cys Pro Thr Val Pro Lys Met Lys Lys Ser Leu Tyr Ser Ala  
319 335 340 345  
321 Ile Ser Leu Phe Asn Asn Pro Val Lys Tyr Trp Glu Met Gln Pro  
322 350 355 360  
324 Ala Thr Phe Arg Cys Val Leu Ser Arg Met Ser Val Gln Leu Gly  
325 365 370 375  
327 Asn Phe Gly Met  
330 <210> SEQ ID NO: 3  
331 <211> LENGTH: 20  
332 <212> TYPE: DNA  
333 <213> ORGANISM: Artificial Sequence  
335 <220> FEATURE:  
336 <223> OTHER INFORMATION: Synthetic Oligonucleotide Probe  
338 <400> SEQUENCE: 3  
339 ggaaatgagt gcaaaccctc 20  
341 <210> SEQ ID NO: 4  
342 <211> LENGTH: 24  
343 <212> TYPE: DNA  
344 <213> ORGANISM: Artificial Sequence  
346 <220> FEATURE:  
347 <223> OTHER INFORMATION: Synthetic Oligonucleotide Probe  
349 <400> SEQUENCE: 4  
350 tcccaagctg aacactcatt ctgc 24  
352 <210> SEQ ID NO: 5  
353 <211> LENGTH: 50  
354 <212> TYPE: DNA  
355 <213> ORGANISM: Artificial Sequence  
357 <220> FEATURE:  
358 <223> OTHER INFORMATION: Synthetic Oligonucleotide Probe  
360 <400> SEQUENCE: 5  
361 gggtagcgtt gttccatatac agaattgcag aagcaaaact gacctcagtt 50  
363 <210> SEQ ID NO: 6  
364 <211> LENGTH: 3441  
365 <212> TYPE: DNA  
366 <213> ORGANISM: Homo Sapien  
368 <400> SEQUENCE: 6  
369 cggacgcgtg ggcggacgcg tggggccgcs gcaccgcccc cggccggcc 50  
371 ctccgcctc cgcaactcgcg cctccctccc tccggccgct cccgcgcct 100  
373 cttccctccc tcctccccag ctgtcccggt cggtcatgc cgaggctccc 150  
375 ggcccccgcg gccccgcgc tgctcctcggt gctgtgtgt ctcggctccc 200  
377 ggccggcccg cggccgcggc ccagagcccc ccgtgtgtcc catccgttct 250  
379 gagaaggagc cgctgtccgt tcggggagcg gcagggtgtca cttcggcgg 300  
381 gaagggtctat gccttggacg agacgtggca cccggaccta gggcagccat 350

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/944,944

DATE: 12/10/2001  
TIME: 15:40:45

Input Set : N:\paola\09944944.txt  
Output Set: N:\CRF3\12102001\I944944.raw

L:24 M:283 W: Missing Blank Line separator, <140> field identifier  
L:31 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:34 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:37 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:40 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:43 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:46 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:49 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:52 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:55 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:58 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:61 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:64 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:67 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:70 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:73 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:76 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:79 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:82 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:85 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:88 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:91 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:94 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:97 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:100 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:103 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:106 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:109 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:112 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:115 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:118 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:121 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:124 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:127 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:130 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:133 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:136 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD